Custom Development

Functional Specification – Definition			
(Please do not modify the data in this table, it is set on the server using the Properties Page, then populated here)			
Phase			
Start Date	December 7, 2004 12:00:00 AM PST	Stop Date	December 7, 2004
Priority	priority not set	Deliverable ID	IIFPY048

Functional Specification – Header	
Associated Activity	N/A
Technical Design	N/A

Related Documents

Please insert links to related Documents (Process Model Reference)

Related Document(s)	Comment
IIFPY048.Inbound.Mapping.xls	Detailed field mapping

Functional Specification Description

This inbound interface will process and load a data file from DRS containing Retirement Eligibility data, the same file that DRS currently provides for Universities. This data is a history of all Retirement Systems & Plans that employees have been enrolled in. It is called "eligibility" data because an employee is eligible for any retirement system/plan that he/she has ever been enrolled in.

Because this is historic data for all employees, the file from DRS contains 1.2 million records and growing. Approximately 25% (300,000) of the records will be removed; 900,000 records will be loaded, by stripping out those records with a plan code of D,R or U or a status code of C,D,E, L, and S. Due to DRS Membership file contains invalid dates, those dates are not required for BNEXT001 which uses the table as a reference for determining prior plan eligibility. Therefore, these date fields – Date of Birth, Entry Date and Retirement Date will not be loaded.

This data is to be loaded into a custom SAP table, as a complete table overlay, on a scheduled basis. SAP User Exit PBEN0006 will utilize this table during the benefits enrollment business process to determine retirement eligibility.

The codes that SAP will use to represent Retirement System and Retirement Plan will be different from those sent by DRS. Because DRS provides retirement services for many agencies other than DOP/HRMS, DRS will continue to use the existing codes and DOP must build the

Version: 1.24,CURRENT Page 1 of 11 Responsible: Charlotte Wang
Release: <select release> Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM PST Status: Revision Complete

Confidential and Proprietary to Accenture

"crosswalk". The data will be translated for these items when reading the file from DRS, and translated data will be loaded into the custom SAP table.

DRS will place the retirement eligibility file on a secure FTP ValiCert server at DIS, and DOP will pull the file from that server for processing.

Development Information

Estimated Hours:
Tech Design – 38
Build & Test – 146

Estimated Production Date: 01/01/2005

Comments: N/A

Development Complexity (High/Medium/Low): Low

General Requirements

Related RICEF Objects:
        BNEXT001 – Retirement Plan Eligibility

Assumptions:

1. DRS will upload its mainframe file via secured FTP transfer (ValiCert/Tumbleweed). It has the necessary software and licensing to place the file on the secure FTP ValiCert server at DIS.

2. There is no translation/crosswalk from the DRS file into the table. The file from DRS will be loaded in its format.

3. DRS will update the contents of the eligibility file to reflect changes to employee demographic information that it receives via Gap 46 and Gap22: Retirement and DCP/JRA Transmittal outbound interface. It is critical that SSN changes be applied to all history for the individual.

4. This interface will utilize the same "crosswalk" table that the HRMS Conversion team uses for Retirement System & Plan.

Version: 1.24,CURRENT   Page 2 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

Confidential and Proprietary to Accenture

5. There are no implications on this interface due to the staggered Group implementation strategy. The entire State employee population can be loaded into the custom eligibility table as of 1/1/2005.

6. Incoming records with a plan code of D,R or U or a status code of C,D, E, L, and S will be excluded.

Incoming records with , the file from DRS contains 1.2 million records and growing. Approximately 25% (300,000) of the records will be removed ; 900,000 records will be loaded, by stripping out those records with a plan code of D,R or U or a status code of C,D, E, L, and S.

Audit/Checks:
1. The interface will update the execution log table with statistics containing:
   - The number of records read.
   - The number of records written to the custom SAP table.
   - Successful/unsuccessful completion of the interface.
   - Error/warning messages as required. (See "Report Layout" below)

Transaction Volume:
 The file from DRS contains 1.2 million records and growing. Approximately 25% (300,000) of the records will be removed; 900,000 records will be loaded, by stripping out those records with a plan code of D, R or U or a status code of C,D, E, L, and S.

Frequency (Annual/Bi-monthly, Daily, Hourly, Quarterly, Semi-Annual, Weekly):
 Monthly; scheduled at the first of the month or end of month (exact timing to be determined) (DRS Member file is created on the night of the first business day of the month. The file is normally purged from the sever after 14 days.)

Processing Type (Batch/On-Line):
 Batch

Initiating Process:
 Receipt of DRS file; there will be continual sweeps of the secure FTP ValiCert server at DIS to look for the inbound file from DRS. Control M will be implemented as the job scheduler to retrieve the inbound file and call the interface execution job immediately.

Initiating Transaction/Program:
 N/A

Version: 1.24,CURRENT	Page 3 of 11	Responsible: Charlotte Wang
Release: <select release>		Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM PST		Status: Revision Complete

Confidential and Proprietary to Accenture

Distribution:
    None

Output (Online/Print/Spreadsheet):
    Audit report to SAP spool.

Summary Level (Detail/Drill Down/Summary):
    N/A

Audience:
    SAP/R3

Module:
    Benefits Administration (BN)

Retention Requirements:
    Inbound production files should be retained for a minimum of 31 days.

From System(s):
    DRS

To System(s):
    SAP R/3 custom table.

Responsible Organizations

	Name	**Phone #**	**Location**
Process Owner	Susan Sparks	664-6366	Dept of Personnel
Source System Contact	TBD	TBD	DRS
Destination Sys. – Functional	Todd Jenkins	664-6372	Dept of Personnel
Destination Sys. – Technical	Todd Jenkins	664-6372	Dept of Personnel

Existing/Sample Programs, Reports, & Forms

Job/Program Name:
    Subroutine C1110159 called from CICS screen SC1110A74.   Dynamic real-time access to
    DRS database.

Menu / Transaction:
    A.74 screen.

Version: 1.24,CURRENT   Page 4 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

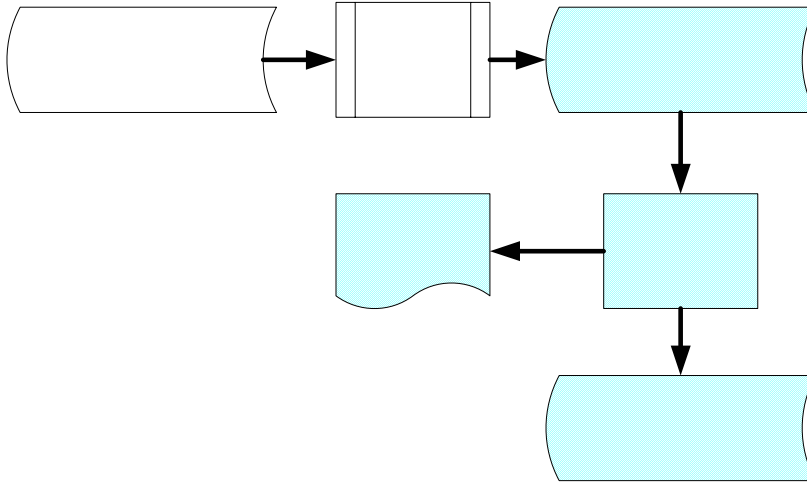Confidential and Proprietary to Accenture

Legacy Report/Form Number:
    N/A

Legacy Interface File Name:
    N/A – no data file; real-time interface subroutine doing dynamic access of DRS database.

Version: 1.24,CURRENT   Page 5 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

Confidential and Proprietary to Accenture

Design

Process Flow Diagram (insert link or paste Visio schematic):

Detailed Description:

> **Note-1**: In the following description, the term "Crosswalk table" refers to a data
> translation table that will be created by the Conversion Team.
> **Note-2**: The term "SAP custom retirement eligibility table" refers to the custom SAP
> table that will be populated by this interface.
> **Note-3**: Even though the mapping layout shows Retirement System and Retirement
> Plan as separate data items, they exist as a 2-character pair (P1, P2, P3, etc.).
>
> DRS will supply a sequential inbound eligibility interface file with data as defined in
> IIFPY048.Inbound.Mapping.xls. The file from DRS will be a complete file overlay – the
> custom SAP table will be completely re-loaded each time.

1. Read the SAP retirement eligibility file.
   - If no data is found:
     - Write an "ERROR – No data found" message to the Error Log.
     - STOP PROCESSING.
   - If data is found:
     - Delete all existing data from the SAP custom eligibility table.

> Populate SAP custom retirement eligibility table with all data except for Retirement
> System and Retirement Plan. SAP custom table will also exclude a plan code of D,R
> or U. If not plan code of D,R or U then any other plan with status code of C, D, E, L
> and S. This will reduce the amount of space required to load the file into the custom

Version: 1.24,CURRENT   Page 6 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

Confidential and Proprietary to Accenture

SAP Table currently estimated at 1.2 million records of 93 bytes in length for the full file.

Due to DRS Membership file contains invalid dates, those dates are not required for BNEXT001 which uses the table as a reference for determining prior plan eligibility. Therefore, these date fields – Date of Birth, Entry Date and Retirement Date will not be loaded.

2. Translation of DRS data for Retirement System and Plan will be done using equivalencies found in SAP "crosswalk table" constructed as part of the data conversion for the HRMS project:
   a) Search "crosswalk" table for a legacy Retirement System/Plan equal to the inbound Retirement System/Plan:
      o If a match is found:
         ▪ Populate the SAP custom retirement eligibility table infotype System/Plan with the translation value found in the table.
      o If a match is not found:
         ▪ Populate the SAP custom retirement eligibility table infotype System/Plan with the original Retirement System/Plan from the retirement eligibility file.
         ▪ Write a "WARNING – No translation equivalent was found for Retirement System/Plan XX" message to the Error Log.
3. Write the data to the custom table.

Performance Considerations:
   The file from DRS contains 1.2 million records and growing. Approximately 25% (300,000) of the records will be removed; 900,000 records will be loaded, by stripping out those records with a plan code of D, R or U or a status code of C,D,L,E and S.

Security Requirements:
   This file contains social security numbers. FTP from DRS mainframe file must be secured. Access to the custom SAP table must be secured within R/3.

Mapping (insert link or paste Excel mapping):
   IIFPY048.Inbound.Mapping.xls

Design Constraints:
   None.

Version: 1.24,CURRENT	Page 7 of 11	Responsible: Charlotte Wang
Release: <select release>		Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM PST		Status: Revision Complete

Confidential and Proprietary to Accenture

Report Layout:

No report except standard Control Log audit report; use SAP R/3's ALV Grid facility:

Washington State Department of Personnel
DRS Retirement Eligibility Inbound Interface
Audit Report

Run date: 05-06-2005

Message1   Message2   Message3

Records read: ###,###
Records written to table: ###,###

SUCCESSFUL   Normal completion.
UNSUCCESSFUL   Found no data on inbound DRS file.
WARNING   No translation equivalent was found for Retirement System/Plan XX.

Selection Criteria: File name and path.

Main Heading: N/A

Sub Heading: N/A

Totaling: N/A

Sorting: N/A

Page Breaks: N/A

Extraction Method (IDOC/Custom ABAP):   N/A

Extract File Layout: N/A

Load Method (IDOC/BDC/Direct Table Update):   Direct Table Update

Version: 1.24,CURRENT	Page 8 of 11	Responsible: Charlotte Wang
Release: <select release>		Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM PST		Status: Revision Complete

Confidential and Proprietary to Accenture

Load File Layout: See Mapping section

Interface Type: Inbound

Post Interface Activities:
1. If any WARNING messages are written to the Error Log, DOP/HRISD Production Support contacts the appropriate individual(s) to update the crosswalk table so the interface can be executed again.
2. If there was no data on the input file, DOP/HRISD Production Support requests a new file from DRS.
3. If there was an SAP technical error, DOP/HRISD Production Support should investigate.

Testing Requirements

Key Business Test Conditions:
1. Ensure the file from DRS contains 1.2 million records that between the loading of 900,000 records and the stripping out the 300,000 with a plan code of D,R or U or a status code of C,D, E, L, and S, it is verifiable that all the records were read successfully in the interface.
2. Ensure the date fields (Date of Birth, Entry Date and Retirement Date) will not be loaded.
3. Test that the record count of the SAP custom table matches the record count of the inbound file.
4. Ensure that all data items that are not subject to data translation ("crosswalk table") found in the inbound file are successfully placed into the SAP custom table.
5. Ensure that all data items that are subject to data translation ("crosswalk table") found in the inbound file are successfully converted with converted values placed into the SAP custom table.
6. Ensure that proper error messages are generated in the Error Log if any data item subject to data translation ("crosswalk table") in the input file does not exist in the crosswalk table. When this happens, no translation is possible – the non-translated inbound value should be inserted into the table – the record should not be rejected.

Error Handling

Potential Errors:
1. No data in the inbound file.
2. No translation value found in the crosswalk table for inbound Retirement System or Retirement Plan or Retirement Status Code:
Possible SAP technical errors due to the stripping out the 300,000 with a plan code of D,R or U or a status code of C,D,L,E and S.
DOP/HRISD Production Support is notified if any of the above occurs.

Version: 1.24,CURRENT   Page 9 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

Notification Procedures:

1. Internal – HRISD production services checks interface batch job status and reviews audit logs as part of normal operating procedures.

2. External – None

Outstanding Issues or questions

1. DRS interfaces, including this one, make use of "crosswalk tables" for translation between SAP codes and Legacy codes. Such "crosswalk tables" have not been created by the Conversion Team. To complete the functional specification, this interface requires translation values for Retirement System and Retirement Plan. This issue will be tracked in a separate, consolidated issue resolution spreadsheet.

2. The Conversion Team must be notified that this interface will use the "cross walk tables" it develops for the conversion effort. This issue will be tracked in a separate, consolidated issue resolution spreadsheet.

3. What is this interface's frequency? This issue will be tracked in a separate, consolidated issue resolution spreadsheet. (DRS creates this file monthly on the night of the first business day of the month. The file is retained on the SFT server for 14 days.)

4. What is the format of the date fields in the DRS file (MMDDYYYY, YYYYMMDD)? Resolution: According to a sample file from DRS, the data format is CCYYMMDD.

Revision History

Date	Section	Description of change
7/22/2004	Functional Specification Description	Modified
7/26/2004	General Requirements	Assumptions updated
7/22/2004	General Requirements	Frequency updated
7/12/2004	General Requirements	Retention requirements added
7/26/2004	Design	Detailed description modified
7/26/2004	Design	Report Layout updated

Version: 1.24,CURRENT   Page 10 of 11   Responsible: Charlotte Wang
Release: <select release>   Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM   Status: Revision Complete
PST

Confidential and Proprietary to Accenture

7/12/2004	Outstanding Issues or Questions	Updated
10/22/2004	Description, design, transaction volume, performance consideration, testing requirements, error handling	Updated the information about excluding a plan code of D,R or U or a status code of C,D,L, and S.
10/25/2004	Functional Specification Description, Assumption, Design	Updating assumption; adding two comments in.
11/5/2004	Description, design, transaction volume, performance consideration, frequency, testing requirements, error handling	Updating DRS comments about excluding a status code of E.
12/7/2004	Description, testing requirements	Updating the dates(Date of Birth, Entry Date and Retirement Date) will not be loaded to SAP custom table

Version: 1.24,CURRENT　　　　　　Page 11 of 11　Responsible: Charlotte Wang
Release: <select release>　　　　　　　　　　　　Team: RICEF
Last saved by: Carol Nordby on January 28, 2005 2:22:05 PM　Status: Revision Complete
PST

Confidential and Proprietary to Accenture